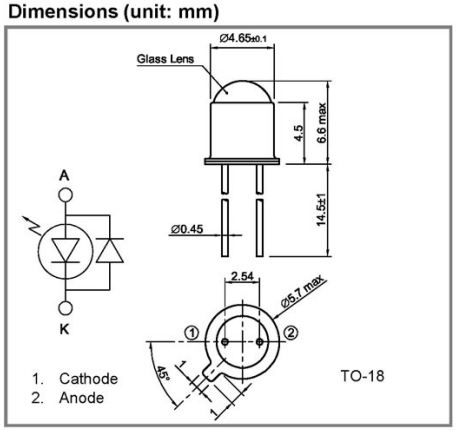
Ultra Violet LEDs

KED365UH

Features

- Peak emission wavelength, λ_P=367nm
- Highly reliable hermetic seal
- Longer life

Dimensions (unit: mm)



Applications

- Optical instruments
- Photocatalytic reactions
- Fluorescent substance detection
- Medical applications

Specifications

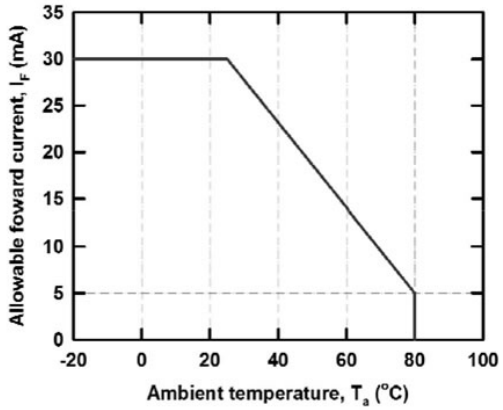
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Forward current	I_F	30	mA	Ta=25°C
Peak forward current	I_{FP}	0.2	A	Puls width=100µs, Duty ratio=0.1%
Reverse Current	I_R	100	mA	
Power dissipation	P_D	120	mW	
Operating temperature	T_{opr}	-20 to +80	°C	Avoid dew condensation
Storage temperature	T_{stg}	-30 to +100	°C	Avoid dew condensation
Soldering temperature	T_{sol}	260	°C	Soldering time less than 5 seconds

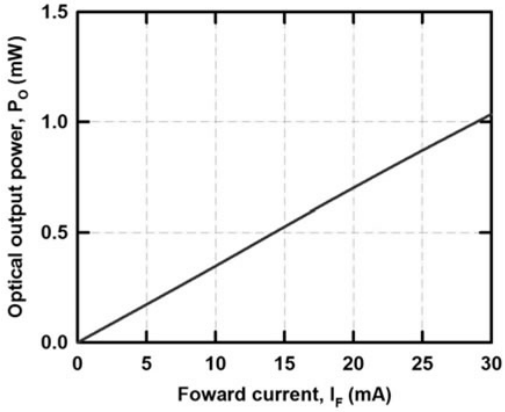
Electrical and Optical characteristics

Parameter	Symbol	Value			Unit	Conditions
		Min.	Typ.	Max		
Forward voltage	V_F		3.7	4.5	V	I_F=20mA
Reverse voltage	V_R			3	V	I_R=20mA
Optical output power	P_O		0.7		mW	I_F=20mA
Peak wavelength	λp	363	367	370	nm	I_F=20mA
Spectral width	Δλ		15		nm	I_F=20mA
Half angle	2θ		16		deg	I_F=20mA

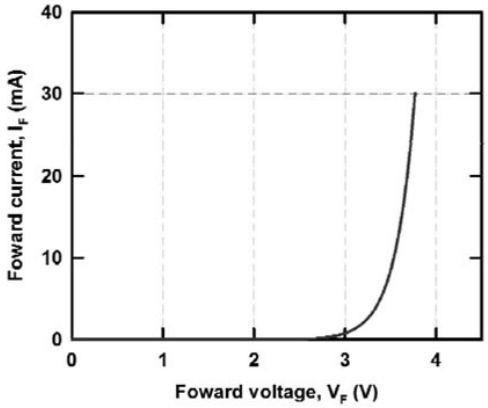
Allowable Forward Current – Ambient temperature



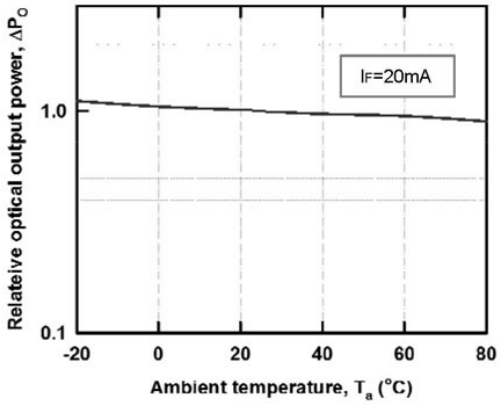
Optical Output Power – Forward Current (Ta=25°C)



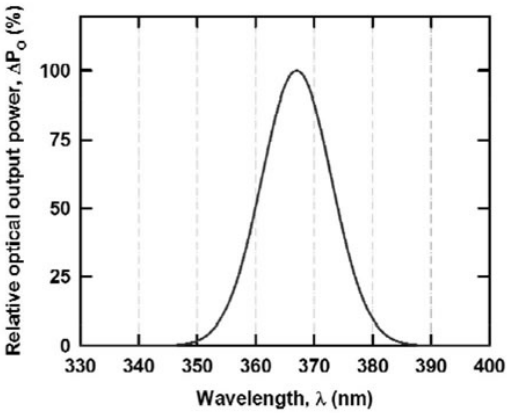
Forward Current – Forward Voltage (Ta=25°C)



Relative Optical Output Power – Ambient Temperature



Spectral Distribution (Ta=25°C, IF=20mA)



Directivity